

### **Amendments to the Claims**

- 1-12. **(canceled)**
13. **(previously presented)** A flat panel display comprising:  
a front plate;  
a rear plate;  
a layer of liquid crystals and a TFT array layer, both interposed between said front and rear plates; and  
at least one thermal sensor integral to the TFT array and hidden by an EMI layer to provide temperature sensing of said layer of liquid crystals.
14. **(original)** A flat panel display according to claim 13, wherein said at least one thermal sensor is comprised of an array of diodes.
15. **(cancelled)**
16. **(previously presented)** A flat panel display according to claim 13, wherein the at least one thermal sensor is applied onto the TFT array layer.
17. **(previously presented)** The flat panel display of claim 13, wherein:  
the thermal sensor provides a nominal 2.5 volt to 5.0 volt change in bias potential as the liquid crystal temperature changes from – 60 degrees Celsius to 100 degrees Celsius.
18. **(canceled)**
19. **(previously presented)** The flat panel display of claim 13, wherein each at least one thermal sensor lies under the EMI layer.
20. **(previously presented)** The flat panel display claim 13, wherein the EMI layer is a black mask EMI layer.